

What Is Claimed Is:

1. A multi-physics analysis method for simulating an object model with a plurality of physical models, comprising:

5 a step for setting the physical models of the element groups constituting said object model;

a step for searching boundaries of said object model corresponding to said set element group;

10 a step for reflecting the physical models of said element group in the boundaries searched on a screen for setting analysis conditions for the boundaries of said object model;

a step for setting the analysis conditions of said boundaries on a screen for setting analysis conditions of said reflected boundaries; and

15 a step for analyzing said object model with said set physical models and analysis conditions.

2. The multi-physics analysis method, according to Claim 1, wherein said step for setting the element groups comprises  
20 a step for setting said element groups on a screen for setting analysis conditions for the element groups displayed on the same screen as said screen for setting the analysis conditions of the boundaries.

25 3. The multi-physics analysis method, according to Claim 1, further comprising a step for displaying the form of said object model on the same screen as said screen for setting analysis

conditions.

4. The multi-physics analysis method, according to Claim 1, wherein said step for setting the element groups comprises  
5 a step for setting said element groups on a screen for setting analysis conditions comprising a two-dimensional list of said element groups and said physical models.

5. The multi-physics analysis method, according to Claim 1, wherein said reflecting step comprises a step for reflecting  
10 the physical models of said element groups on the screen for setting the analysis conditions of the boundaries comprising a two-dimensional list of said boundaries and said physical models.

6. The multi-physics analysis method, according to Claim 1, further comprising a step for generating a correspondence  
15 list showing the correlation between the element groups and boundaries from the element group and boundary data of said object model.

7. The multi-physics analysis method, according to Claim 1, further comprising a step for generating boundary data  
20 belonging to two or fewer element groups from the element group and boundary data of said object model.

8. A method for setting analysis conditions for

multi-physics analysis for simulating an object model and a plurality of physical models, comprising:

a step for setting the physical models of the element groups constituting said object model;

5 a step for searching the boundaries of said object model corresponding to said set element group;

a step for reflecting the physical model of said element group in the boundaries found on a screen for setting analysis conditions for the boundaries of said object model; and

10 a step for setting the analysis conditions of said boundaries on a screen for setting analysis conditions of said reflected boundaries.

15 9. The method for setting analysis conditions for multi-physics analysis, according to Claim 8,

wherein said step for setting element groups comprises a step for setting said element groups on a screen for setting analysis conditions for said element groups that is displayed on the same screen as said screen for setting the analysis conditions for the boundaries.

20 10. The method for setting analysis conditions for multi-physics analysis, according to Claim 8, further comprising a step for displaying the form of said object model on the same screen as said screens for setting analysis conditions.

11. The method for setting analysis conditions for multi-physics analysis, according to Claim 8,

wherein said step for setting the element groups comprises a step for setting said element groups on a screen for setting analysis conditions comprising a two-dimensional list of said element groups and said physical models.

12. The method for setting analysis conditions for multi-physics analysis, according to Claim 8,

wherein said reflecting step comprises a step for reflecting the physical models of said element groups on the screen for setting the analysis conditions of the boundaries comprising a two-dimensional list of said boundaries and said physical models.

13. The method for setting analysis conditions for multi-physics analysis, according to Claim 8, further comprising a step for generating a correspondence list showing the correlation between the element groups and boundaries from the element group and boundary data of said object model.

14. The method for setting analysis conditions for multi-physics analysis, according to Claim 8, further comprising a step for generating boundary data belonging to two or fewer element groups from the element group and boundary data of said object model.

15. A storage medium for storing programs for setting analysis conditions for multi-physics analysis for simulating an object model with a plurality of physical models wherein the following are stored:

5           a program for setting the physical models of the element groups constituting said object model;

          a program for finding the boundaries of said object model corresponding to said set element groups;

          a program for reflecting the physical models of said element groups in the boundaries found on a screen for setting analysis conditions for the boundaries of said object model; and

10           a program for setting the analysis conditions of said boundaries on a screen for setting analysis conditions of said reflected boundaries.